HISTOGRAM Statement HISTOGRAM Statement

# **HISTOGRAM Statement**

The HISTOGRAM statement is used to either read only the values of one database field, or determine the number of records which meet a specified search criterion.

The HISTOGRAM statement does not provide access to any database fields other than the one specified in the HISTOGRAM statement.

The following topics are covered below:

- Syntax
- Limiting the Number of Values to be Read
- The STARTING/ENDING Clauses
- The WHERE Clause

## **Syntax**

The basic syntax of the HISTOGRAM statement is:

**HISTOGRAM VALUE IN view FOR field** 

or shorter:

**HISTOGRAM** view field

*view* is the name of a view defined in the DEFINE DATA statement (as explained earlier in this section). *field* is the name of the database field defined in that view.

For the complete syntax, refer to the HISTOGRAM statement documentation.

## Limiting the Number of Values to be Read

In the same way as with the READ statement, you can limit the number of values to be read by specifying a number in parentheses after the keyword HISTOGRAM:

```
HISTOGRAM (6) MYVIEW FOR NAME
```

In the above example, only the first 6 values of the field NAME would be read.

Without the limit notation, all values would be read.

### The STARTING/ENDING Clauses

Like the READ statement, the HISTOGRAM statement also provides a STARTING from clause and an ENDING AT (or THRU) clause to narrow down the range of values to be read by specifying a starting value and ending value.

#### **Examples:**

```
HISTOGRAM MYVIEW FOR NAME STARTING from 'BOUCHARD'
HISTOGRAM MYVIEW FOR NAME STARTING from 'BOUCHARD' ENDING AT 'LANIER'
HISTOGRAM MYVIEW FOR NAME from 'BLOOM' THRU 'ROESER'
```

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The WHERE Clause HISTOGRAM Statement

### The WHERE Clause

The HISTOGRAM statement also provides a WHERE clause which may be used to specify an additional selection criterion that is evaluated *after* a value has been read and *before* any processing is performed on the value. The field specified in the WHERE clause must be the same as in the main clause of the HISTOGRAM statement.

#### **Example of HISTOGRAM Statement:**

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```
** Example Program 'HISTOX01'

DEFINE DATA LOCAL

1 MYVIEW VIEW OF EMPLOYEES
2 CITY

END-DEFINE

*

LIMIT 8

HISTOGRAM MYVIEW CITY STARTING from 'M'

DISPLAY NOTITLE CITY 'NUMBER OF/PERSONS' *NUMBER *COUNTER
END-HISTOGRAM
END
```

CITY	NUMBER OF PERSONS	CNT
MADISON	3	1
MADRID	41	2
MAILLY LE CA	AMP 1	3
MAMERS	1	4
MANSFIELD	4	5
MARSEILLE	2	6
MATLOCK	1	7
MELBOURNE	2	8

In the above program, the system variables \*NUMBER and \*COUNTER are also evaluated by the HISTOGRAM statement, and output with the DISPLAY statement. \*NUMBER contains the number of database records that contain the last value read; \*COUNTER contains the total number of values which have been read.

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